

04-12-0

Practitioner's Docket No.

46700-5004-10

PATENT

Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

Alaia et al.

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

dressed to the: Assistant Commissioner for Patents, Washington, D.C. 2023

> aniel H. Golub (type or print\name/of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

> "Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

> > (New Application Transmittal [4-1]—page 1 of 11)



1. Type of Application

This new application is for a(n)

(check one applicable item below)

X	Original (nonprovisional)
	Design
	☐ Plant
WARNING	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.

WARNING: Do not use this transmittal for the filing of a provisional application.

NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

□ Divisional.★ Continuation.□ Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
 - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(f) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. §§ 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]—page 2 of 11)

WARNING:	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION THANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED. IS AN Application of Enclosed
3. Papers	Enclosed Data Sheet.
· (Des	uired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 ign) Application Pages of specification
	Pages of claims
<u> 15</u>	_ Sheets of drawing
WARNING:	DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).
inv the on	lentifying indicia, if provided, should include the application number or the title of the invention, rentor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed the back of each sheet of drawing a minimum distance of 1.5 cm. (% inch) down from the top of the page" 37 C.F.R. § 1.84(c)).
	(complete the following, if applicable)
	The enclosed drawing(s) are photograph(s). Three (3) sets of photographs and a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)" are attached. 37 C.F.R. § 1.84(b).
	The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).
X	formal
	informal
, , ,	er Papers Enclosed
12	2 Pages of declaration and power of attorney
/	_ Pages of abstract
	_ Other
_	onal papers enclosed
	Amendment to claims
	Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
•	Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)

(New Application Transmittal [4-1]—page 3 of 11)

5.

×	Prel	iminary Amendment		
X	7	rmation Disclosure Statement (37 C.F.R. § 1.98)		
X	į.	m PTO-1449 (PTO/SB/08A and 08B)		
		utions		
		elaration of Biological Deposit		
	Sub perf	omission of "Sequence Listing," computer readable copy and/or amendment taining thereto for biotechnology invention containing nucleotide and/or no acid sequence.		
	Auti tive	horization of Attorney(s) to Accept and Follow Instructions from Representa-		
		ecial Comments		
×	Oth	er Application Data Sheet		
. Decl	aratio	on or oath (including power of attorney)		
; ; ;	the price by all co applicat the sign by a sta being t declara person	y executed declaration is not required in a continuation or divisional application provided that or nonprovisional application contained a declaration as required, the application being filed is or fewer than all the inventors named in the prior application, there is no new matter in the tion being filed, and a copy of the executed declaration filed in the prior application (showing nature or an indication thereon that it was signed) is submitted. The copy must be accompanied atement requesting deletion of the names of person(s) who are not inventors of the application filed. If the declaration in the prior application was filed under § 1.47, then a copy of that tion must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently ad declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).		
	E: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)–(4).			
i i	TE: "The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).			
X	Enc	closed		
•	Exe	ecuted by		
		(check all applicable boxes)		
	×	inventor(s).		
		legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.		
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.		
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.		
	Not	Enclosed.		
	the U.S may be	the filing is a completion in the U.S. of an International Application or where the completion of 6. application contains subject matter in addition to the International Application, the application is treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE EW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.		
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of <i>all</i> the above named inventor(s).		

(The declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).	
Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))	
6. Inventorship Statement	
WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.	
The inventorship for all the claims in this application are:	
☐ The same.	
or	
 Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, 	
☐ is submitted.	
will be submitted.	
7. Language	
NOTE: An application including a signed oath or declaration may be filed in a language other than English. An English translation of the non-English language application and the processing fee of \$130.00 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. § 1.52(d).	}
English	
☐ Non-English	
☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).	
8. Assignment . Garden L. Callin T.	
8. Assignment . An assignment of the invention to Freeli arkets On Line, In	l
is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCU-MENT) ACCOMPANYING NEW PATENT APPLICATION" or FORM PTO 1595 is also attached.	
☐ will follow.	
NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).	ı
WARNING: A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.	
\square This is a \square continuation \square divisional application and the assignment	
document for the parent application 0 / was filed	
on	
Reel	_
Frame	_
(New Application Transmittal [4-1]—page 5 of 11)

Certified C	ору
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	Certified	copy(ies)	of	application(s	;)
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Country	A	ppin. No.		Filed
Country	A	ppin. No.		Filed
Country	A	ppin. No.		Filed
from which priority is clain	ned			
☐ is (are) attached	1 .			
☐ will follow.				
NOTE: The foreign application declaration. 37 C.F.R.		for the claim fo	or priority must l	be referred to in the oath or
U.S. application or Inte § 120 is itself entitled	ernational Application to priority from a pric	from which the or foreign appli	nis application cla cation, then com	directly relates. If any parent aims benefit under 35 U.S.C. plete item 18 on the ADDED PRIOR U.S. APPLICATION(S)
10. Fee Calculation (37	C.F.R. § 1.16)			
A. X Regular applica	tion			
	CLAIMS	S AS FILED		,
Number filed	Numbe	er Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$710.00
Total Claims (37 C.F.R. § 1.16(c)) 60	- 20 =	40 ×	\$ 18.00	720.00
Independent Claims (37 C.F.R. § 1.16(b))	- 3 =	/0 ×	\$ 80.00	720.00 800.00
Multiple dependent claim(s if any (37 C.F.R. § 1.16(c)	s),	+	\$270.00	
	ncelling extra cla			ı.
☐ Fee for extra cl	aims is not bein	g paid at ti	his time.	
NOTE: If the fees for extra clair prior to the expiration notice of fee deficience	of the time period s	et for respons	•	and Trademark Office in any
	Filing Fee Ca	•		\$ 2230.00
B. Design applicat	ion	2 m mark (2) 1		T
(43.0.00 0) 0	Filing Fee Ca	alculation		\$
				7

(New Application Transmittal [4-1]—page 6 of 11)

	Plant application (\$480.00—37 C.F.R. § 1.16(g))		
	Filing fee calcu	lation	\$
11. Small	Entity Statement(s)		*
	Statement(s) that this is a filing by is (are) attached.	a small entity under 37	C.F.R. § 1.9 and 1.27
WARNING:	"Status as a small entity must be specification or patent, affect any other application or patent, indirectly dependent upon the application refiling of an application under § 1.53 as a continued prosecution application under a new determination as to continued entiapplication. A nonprovisional application 365(c) of a prior application, or a reissuapplication or in the patent if the nonprovisional entity to the small entity to purposes of this section." 37 C.F.R.	is as a small entity in one ap- including applications or pa- in or patent in which the statu- a continuation, division, or co- er § 1.53(d)), or the filing of a tlement to small entity status claiming benefit under 35 U- are application may rely on a posisional application or the re- application or in the paten- the patent and status as a smassic statutory filing fee will be	plication or patent does not atents which are directly or is has been established. The partinuation-in-part (including reissue application requires for the continuing or reissue L.S.C. § 119(e), 120, 121, or statement filed in the prior pissue application includes a tor includes a copy of the mall entity is still proper and
WARNING:	"Small entity status must not be establish can unequivocally make the required so 1996 (emphasis added).		
	(complete the folio	wing, if applicable)	
	Status as a small entity was clair	ned in prior applicatior	1
-	, file		, from which benefit
1	is being claimed for this applicati 35 U.S.C. § 119(e),	on under:	
	□ 120,		
	☐ 121,		
	☐ 365(c),	11 1 111	
	and which status as a small ent		
	☐ A copy of the statement in	* * *	included.
	Filing Fee Calculation (50% o		
MOTE: 4-			
are	vexcess of the full fee paid will be refunded filed within 2 months of the date of time andable under § 1.136. 37 C.F.R. § 1.28	ely payment of a full fee. Th	blished and a refund request ne two-month period is not
12. Requ	est for International-Type Searc	h (37 C.F.R. § 1.104(d))
	(complete, i	f applicable)	
	Please prepare an international-type when national examination on the	pe search report for this merits takes place.	application at the time

13. Fee	e Payn	nent Being Made at This Time	
	Not	Enclosed	
		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16 subsequently.)	(e) can be paid
×	(Enc	elosed	
	\times	Filing fee	\$ 2230.00
		Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$
		For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$
		Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
NOTE:	failing to 37 C.F. either t	R. § 1.21(l) establishes a fee for processing and retaining any application to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as w.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a path basic filing fee must be paid, or the processing and retention fee of § 1 year from notification under § 53(f).	rell as the changes to orior U.S. application, 1.21(l) must be paid,
		Total fees enclosed \$_	2250.00
14. Me	ethod	Total fees enclosed \$ of Payment of Fees ached is a	2 7 2 4 170
՛≯	Atta	ached is a 💢 check 🗆 money order in the amount of \$	1070,00
. [Aut	thorization is hereby made to charge the amount of \$	
		to Deposit Account No	
		to Credit card as shown on the attached credit card information form PTO-2038.	mation authoriza-
WARNI	NG: Ci	redit card information should not be included on this form as it may bec	ome public.
×	Cha in_t	arge any additional fees required by this paper or credit as the manner authorized above: To Deposit Accoun	any overpayment of No.50-0310.
		A duplicate of this paper is attached.	

15. Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

The Office is hereby authorized to charge, in the manner shown above, the following additional fees that may be required by this paper and during the entire pendency of this application.

37 C.F.R. § 1.16(a), (f) or (g) (filing fees)

37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).

37 C.F.R. § 1.17 (application processing fees)

NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

- ☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))
- NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).
- NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]-page 9 of 11)

Customer No.

16. Instructions as to Overpayment

	inclinis as in overh					
ε	 Amounts of twenty-five reasonable time, nor will the pe returned by check or, if 	e payer be	notified of su	ch amounts; ar	nounts over twent	y-five dollars may
×	Credit Account No.	50-	0310			
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Reg. No.	33,701				H.60/4	ь
Tel. No.	(215)963-5055	_	(type or	print name of	attorney) VKet S	treet
			<u>l /</u>	v / 1114	1-010	,,,,,,

Philadelphia, PA 19103
(New Application Transmittal [4-1]—page 10 of 11)

Incorporation by reference of added pages
(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)
Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Glaimed Data Sheet
Number of pages added
Plus Added Pages for Papers Referred to in Item 4 Above
Number of pages added
Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application. Number of pages added
☐ Plus "Assignment Cover Letter Accompanying New Application"
Number of pages added
Statement Where No Further Pages Added
(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)
☐ This transmittal ends with this page.
•